



JOB DESCRIPTION

Title: **FIRE ENGINEER**
Department: Fire
Class Code: 4305
FLSA Status: Non-Exempt
Effective Date: July 1, 1997 (Rev. 07/2010)
Grade Number: 19

GENERAL PURPOSE

Under general supervision of the captain, provides direct services, individually and as a member of a team in response to fire, rescue, hazmat, and other incidents. The engineer is responsible for driving, operating and maintaining fire department apparatus. Additionally, the engineer must respond to medical emergencies and provide pre-hospital care to victims of injury or illness at a BLS or ALS level according to the engineer's current medical certification.

The position of engineer necessitates the same knowledge, skills, and job requirements as listed under the Firefighter II job description.

EXAMPLE OF DUTIES

- *-- Responds to emergency fire, medical, and hazardous material alarms.
- *-- Drives fire apparatus, engines, ladder truck, tower etc., insures vehicle and equipment maintenance and readiness; makes routine and emergency repairs; transports fire fighting crews safely to fire and emergency scenes; operates fire fighting apparatus, pumps, nozzles, hydraulic equipment, etc. Supplies extinguishing agents at scenes; provides proper fire streams.
- *-- Performs a thorough, daily inspection and pump check of the apparatus to which he/she is assigned; notifies station officer of any condition requiring repair or maintenance; insures that the inventory of supplies and equipment is complete; assures that apparatus, equipment, and records are maintained and in good order.
- *-- Maintains daily log of equipment and apparatus.
- *-- Operates heavy extraction equipment such as air bags, hydraulically powered cutters and spreaders, pneumatic cutters and special saws.
- *-- Functions as Acting Officer in Charge (AOIC) when required.

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- *-- Lays hose lines, operates nozzles, pumps and hydrants; utilizes fire extinguishers and performs other actions to suppress fire; operates hydraulic, pneumatic, manual and power tools.
- *-- Participates in salvage operation and post fire operations; uses salvage covers, floor runners and other related equipment to reduce property damage from heat, smoke, fire, gases, and water.
- *-- Participates in drills and training evolutions as directed.
- *-- Participates in fire and life safety inspections of commercial and residential properties; checks operating condition of hydrants.
- *-- Cleans and performs general maintenance of fire equipment and fire stations.
- *-- Responds to scenes of accidents or acute illness for which emergency medical care has been requested.
- *-- Required to transfer, lift and move patients while employing appropriate safety and lifting techniques.
- *-- Responds to hazardous materials incidents at an awareness level and responds to other calls for assistance as requested by the public.
- *-- Participates in public education programs in schools, civic groups and other locations as requested.
- Conducts departmental training sessions on topics related to the employee's job functions, attends various engineers' meetings.
- *-- Utilizes city computer system for patient care documentation, record keeping, pre-incident planning and other job related functions.
- Drives and operates fire apparatus under the direction of the station officer and according to procedures as outlined in Murray Fire Department SOGs.
- *-- Participates in daily physical training.
- Performs related duties as required.

MINIMUM QUALIFICATIONS

Education and Experience

- Graduation from high school plus five (5) years experience as a firefighter, including at least one (1) year as a firefighter II OR any equivalent combination of education and experience.

Special Requirements

- Must possess and maintain a valid Utah Commercial Driver license (Minimum Class B).
- Must possess **current** EMT-B or EMT-I certification through the State of Utah.
- Must possess current CPR certification.
- **Firefighter I, Firefighter II and ADO-Pumper** through the Utah Fire Service Certification System are requirements for this position prior to promotion.
- Engineers hired after July 1, 2010 will be required to possess **ADO-Aerial** certification. Obtainment of ADO-Aerial will be waived until June 30, 2012. Following June 30, 2012 ADO-Aerial certification will be required prior to promotion.

Necessary Knowledge, Skills and Abilities

- Considerable knowledge of fire and medical equipment, including ladders, tools, SCBA, etc.; knowledge of proper care and maintenance of equipment.
- Considerable knowledge and skill in pumping operations and fire ground hydraulics, and operation of aerial equipment.
- Considerable knowledge of city streets, geography and target hazards.
- Considerable knowledge and skills in driving fire apparatus of all types and sizes; working knowledge of applicable laws, codes, and standards related to driving and operation of apparatus.
- Ability to follow written and verbal instructions; ability to communicate verbally and in writing.
- Ability to exercise appropriate and safe judgement related to tactics of firefighting and emergency medical services.
- Working knowledge of fire department policies and procedures, and the Incident Command System.

TOOLS & EQUIPMENT USED

- Fire apparatus, SCBA, fire pumps, hoses, and other standard firefighting equipment, ladders, first aid equipment, radio, personal protective gear, personal computer.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

In addition to the physical demands of the job as listed below the employee must pass the department's annual Physical Agility Test (PAT) as described in Murray Fire Department SOGs. The employee must also be cleared for duty as determined by a physician through required annual or biennial (frequency determined by employee's age) medical screening evaluations and meet Murray City's Health Standards and Requirements for Positions in the Public Safety Service.

- While performing the duties of this job, the employee is frequently required to sit; talk or hear; stand; walk; use hands to manipulate, handle, or operate objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to climb or balance; stoop, kneel, crouch, or crawl; and taste or smell. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.
- The employee must be able to move objects between 20-50 pounds short distances (20 feet or more), perform duties requiring pulling of 40 pounds or more such as removing hose from apparatus, pulling ceilings, starting power equipment, and opening doors on the apparatus, as well as frequently lift objects weighing 50 to 100 lbs.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee regularly works in outdoor weather conditions, including temperature extremes, during day and night shifts. Work is often performed in emergency and stressful situations. Individual is exposed to hearing alarms and hazards associated with fighting fires and rendering emergency medical assistant, including smoke, noxious odors, fumes, chemicals, liquid chemicals, solvents and oils.

- The employee occasionally works near moving mechanical parts and in high precarious places and is occasionally exposed to wet and/or humid conditions, fumes or airborne particles, toxic or caustic chemicals, risk of electrical shock, and vibration. The noise level in the work environment is usually moderate, except during certain firefighting or EMT/Paramedic activities when noise levels may be loud.
- The employee will be required to work 48 hour and up to 72 hour continuous shifts. During this time the employee may experience several interruptions of sleep, meals and/or other activities. The employee will be expected to perform essential job functions despite the potential for fatigue resultant from extended shift work.

DEPT/DIVISION APPROVED BY: _____ DATE: _____

EMPLOYEE'S SIGNATURE: _____ DATE: _____

H. R. DEPT. APPROVED BY: _____ DATE: _____

*Essential functions of the job.